

Appl. No. 10/709,890
Amdt. dated December 27, 2005
Reply to Office action of September 27, 2005

REMARKS/ARGUMENTS

1. Amendment to claims 1 and 10:

The applicant has amended claims 1, 10 to respectfully add the limitations of claims 5, 13 in order to distinguish from Lee (PN 2004/0036824), as will be explained below. No new matter is introduced through these amendments.

2. Rejection of claims 1-4 and 10-11 under 35 U.S.C. 102 (e) as being anticipated by Lee (PN 2004/0036824).

Claims 1, 10 have been amended to overcome this rejection. Specifically, the limitations "the micro color filter being composed of a plurality of stacked optical thin films, and comprising a low index optical thin film stack or a high index optical thin film stack" have been added to the claims. The amended claims 1 and 10 are different from Lee (PN 2004/0036824).

As illustrated in Fig. 3 of Lee (PN 2004/0036824), the substrate 100 has a plurality of conductive plugs 110, which are made from the metal. Each conductive plug 110 corresponds to a pixel electrode 179 and a color filter 136. The alignment layer 133 is disposed between the color filter 136 and the liquid crystal layer 130. The optical enhancement layer 135 is disposed between the color filter 136 and pixel electrode 179. And, Lee (PN 2004/0036824) teaches the color filter 136 is made from the monochromatic filters or the polychromatic filters.

In the present invention, the color filters 118, 216 are made using a plurality of stacked optical thin films. And, the stacked optical thin films comprise a low index optical thin film stack or a high index optical thin film stack. As [0017] mentions "The micro color filters 118a, 118b, and 118c only permit lights of a first specific spectrum, a second specific spectrum, and a third specific spectrum to pass respectively." and "the lights of

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the first specific spectrum, the second specific spectrum, and the third specific spectrum are red, green, and blue lights respectively. In addition, a location of each micro color filter of the micro color filter array 118 corresponds to the metal electrodes 114a, 114b, and 114c respectively so that the lights passing through the micro color filters 118a, 118b, and 118c are reflected upward by the metal electrodes 114a, 114b, and 114c respectively".
In the other words, the color filters of the applicant's invention are made from a low index optical thin film stack or a high index optical thin film stack. The optical thin film stacks can separate the reflecting lights from the metal electrodes into the specific spectrums. But, the color filter of Lee (PN 2004/0036824) is made from the monochromatic filters or the polychromatic filters. Thus, the materials of the color filters in the applicant's invention are different from the materials of the color filters in Lee (PN 2004/0036824). So, the way of producing the red, green, and blue lights in the applicant's invention is different from Lee (PN 2004/0036824).

Thus, the amended claims 1 and 10 are patentably distinguishable from Lee (PN 2004/0036824). Reconsideration of the amended claims is politely requested. And, their dependent claims are also patentable.

3. Rejection of claim 5-7 and 12-15 under 35 U.S.C. 103 (a) as being anticipated by Lee (PN 2004/0036824) in view of Sperger et al.(US 6342970).

Claims 1 and 10 are patentably distinguishable from Lee (PN 2004/0036824) for the above-mentioned reasons. Their dependent claims are also patentable.

4. Rejection of claim 8-9 and 16-17 under 35 U.S.C. 103 (a) as being anticipated by Lee (PN 2004/0036824) in view of Vithana (US 204/0165128).

Claims 1 and 10 are patentably distinguishable from Lee (PN 2004/0036824) for the above-mentioned reasons. Their dependent claims are also patentable.

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5. Rejection of claims 18 under 35 U.S.C. 103 (a) as being anticipated by Lee (PN 2004/0036824) in view of Miyawaki(US5793452).

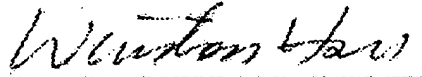
Claims 1 and 10 are patentably distinguishable from Lee (PN 2004/0036824) for the above-mentioned reasons. Their dependent claims are also patentable.

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Applicant respectfully requests that a timely Notice of Allowance be issued in this case.

Sincerely yours,

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